If you are using a printed copy of this procedure, and not the on-screen version, then you <u>MUST</u> make sure the dates at the bottom of the printed copy and the on-screen version match.

The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A

#### C-A OPERATIONS PROCEDURES MANUAL

# 14.7.2 EMS Training for Staff (Tech) Shops

Text Pages 2 through 5

# **Hand Processed Changes**

HPC No.	<u>Date</u>	Page Nos.	<u>Initials</u>
		Signature on File_ er-Accelerator Department Cl	nairman Date

M. Van Essendelft

### **Environmental Training Package for Staff Shop Operations**

This package has been designed to aid in the delivery of required job-specific training for the following Staff Shop activities identified in the environmental process

- Transport of chemicals
- Storage of chemicals
- Disposal of chemicals
- Operation of Building 922 vacuum exhaust unit
- Radioactive and Regulated Industrial Waste generation

Your position has been determined to have significant potential to impact the environment. Thus, C-A Department Management has prepared the questions & answers on the following pages for your specific work/processes.

This environmental material is incorporated into your current job and procedure training. If you have specific questions about this information after you have read the material, contact the C-A Department ESH&Q Division Head, Ray Karol (<a href="mailto:rck@bnl.gov">mailto:rck@bnl.gov</a>).

You may keep this material as a handout and use it as a reference aid.

This specific training course is linked to your job-training assessment (JTA). You must read and acknowledge this material as part of the qualification to perform staff shop operations. Please fill out the Read and Acknowledgement form and return it promptly.

Read & Acknowledgement Form

#### **Environmental Process Evaluation Title: Staff Shop Operations**

**Environmental Aspects:** Atmospheric Discharge, Regulated Industrial Waste, Radioactive Waste, Storage/Use of Chemicals

#### **Contacts for Further ESHQ Information:**

Associate Chair for ESHQ, E. Lessard Head of ESHQ Division, R. Karol Environmental Coordinator, J. Scott Environmental Compliance Representative, M. VanEssendelft ESH Coordinator, A. Etkin Industrial Hygienist, P. Cirnigliaro Radiological Control Division Representative, P. Bergh Procedures Coordinator, L. DiFilippo Quality and Assessment Manager, D. Passarello Self Evaluation Program, J. Maraviglia SHS Representative, E. Lacina Source Custodian, P. Cirnigliaro Tier 1 Coordinator, A. Etkin Training Manager, J. Maraviglia Training Records, A. Luhrs Work Control Manager, P. Cirnigliaro

**Course Objective:** Because your work activities have been identified as having significant potential to impact the environment, this course has been designed to provide you with the job-specific information that you must know to protect the environment.

- 1) What potential impacts to the environment are associated with your activities?
  - In the fabrication of mechanical parts, metal and non-metal chips, filings, oils and greases can be released. The maintenance of machine tooling, mechanical cleaning, and chemical cleaning may result in release of radioactive materials or hazardous chemicals. The following materials in your work may have adverse impacts if improperly handled:
    - Spent coolant from machines with coolant reservoirs
    - Used oily rags
    - Empty aerosol containers
    - Hazardous wastes
    - Radioactive wastes
- 2) What consequences may result if your operations were to impact the environment?
  - Hazardous, industrial or radioactive waste mismanagement could contaminate the environment and incur RCRA or local agency penalties
  - Improperly maintained cyclone exhaust units could disperse contaminated machine filings into the environment
  - Improper release of radioactive materials to uncontrolled areas may result in enforcement actions under Federal Rule 10CFR835
  - Improper handling of waste can create loss of regulator and public trust

- 3) What benefits or positive effects would you notice with improved environmental performance?
  - Safer, cleaner workplace
  - Clear roles and responsibilities
  - Improved relationship with regulators and the public
  - Control of disposal costs
  - Reduced emissions
- 4) What role and responsibility do you have for these potential impacts and environmental performance?

My responsibilities are

- To ensure hazardous, radioactive and industrial wastes are handled according to C-A procedures
- To ensure controls are in place
- To ensure controls keep working
- To take action when controls fail
- To create and keep appropriate records relative to operational controls
- To contact supervision if unsure of how to perform the work or if the procedures are unclear or incorrect
- 5) What controls or procedures are implemented to reduce the potential for emergency?
  - C-A OPM 8.20, Procedure for Handling and Disposing of Hazardous Waste
  - C-A OPM 8.20.2, Radioactive Waste Disposal
  - <u>C-A OPM 8.22</u>, Procedure for Handling and Disposal of Non-Hazardous and Recyclable Solid Waste
  - C-A OPM 8.20.1, C-A Hazardous Waste Trailer (HWT) (90 Day Accumulation Area)
  - C-A OPM 2.28, Enhanced Work Planning (C-A version of SBMS Subject Area)
  - Satellite Accumulation Area
  - Chemical Management System
  - Tier I program and self-evaluations
- 6) How would you respond in an emergency to reduce the potential for environmental impact and what actions could be taken to mitigate the event?
  - See C-A OPM 3.0, Local Emergency Plan for the C-A Department
  - Call Spill Response Hotline X2222 or 911 (if calling from a cell phone, dial (631) 344-2222)
- 7) What pollution prevention and waste minimization techniques have been or could be considered to reduce or eliminate the potential to impact the environment?
  - Purchase chemicals and cleaners in bulk or as concentrates and we fill reusable plastic trigger spray bottles as an alternative to using aerosol cans or disposable spray bottles
  - Use less hazardous substitutes for acetone such as ethyl alcohol or isopropyl alcohol and still meet performance requirements for the job

Suggestions or comments about pollution prevention or waste minimization are always welcome by C-A management.

- 8) Are there any key Environmental-specific Competency Requirements for this position?
  - None.

## **Additional Environmental Information:**

Click on the items below to learn more about C-A Staff Shop Operations.

- Process Assessment for C-A Staff Shop Operations
- <u>Environmental Management Program</u> for C-A
- Operational Control Form for C-A Staff Shop Operations